

INVESTIGATOR'S ANNUAL REPORT

National Park Service

All or some of the information provided may be available to the public

Reporting Year: 1997	Park: Shenandoah NP						
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Name: Robert Noto	Phone: n/a	Email: n/a					
Name: Kelly Dilliard	Phone: n/a	Email: n/a					
Permit#: SHEN1997AUMC							
Park-assigned Study Id. #: unknown							
Project Title: Petrology And Sedimentology Of The Catoctin Formation (N-189)							
Permit Start Date: Jan 01, 1996	Permit Expiration Date Jan 01, 1998						
Study Start Date: Jan 01, 1996	Study End Date Jan 01, 1998						
Study Status: Completed							
Activity Type: Research							
Subject/Discipline: Geology / General							
Objectives: <p>A study of interflow sediments of the Catoctin Formation is proposed. The following are objectives of this study: 1) determine the composition of the interflow sediments, through thinsections, 2) reconstruct the types of streams that cross cut the preserved lava field, 3) determine the controls on deposition, 4) compare and contrast the interflow sediments with that of the Chilhowee Group of southern Virginia and 5) reconstruct a rift model for the extrusion of the Catoctin Formation basalts. This investigation will yield important insights into the Neoproterozoic to Cambrian rift event which affected the Central Appalachians northward.</p>							
Findings and Status: <p>This study has demonstrated a change in fluvial processes from the lower part of the Catoctin Formation's sediments to the Sedimentary member. The characteristics of the fluvial units evolves from traction dominated to hyperconcentrated dominated. We have also reconstructed the paleosurface on which the Catoctin Formation flowed. Slopes were high and devoid of soils</p>							
For this study, were one or more specimens collected and removed from the park but not destroyed during analyses? No							
Funding provided this reporting year by NPS: 0	Funding provided this reporting year by other sources: 5700						
Fill out the following ONLY IF the National Park Service supported this project in this reporting year by providing money to a university or college							
Full name of college or university:	Annual funding provided by NPS to university or college this reporting year:						

n/a	0
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